SCHEDULE A

STATE OF IDAHO
DEPARTMENT OF LANDS

Requisition Number 09-413

Date 6/9/09

REQUEST FOR QUOTE

THIS IS NOT AN ORDER **SOLICITATIONS CLOSE 6-16-3009 4:30 PM**

INSTRUCTIONS:

The right is reserved to accept or reject quotations on each item separately or as a whole.
Responders will use this form in submitting prices.
Prices must be given in the "unit of quantity" we ask for. For example: If we ask for an item by the "piece," quote by the "piece;" if we ask for it by the "foot," quote by the "foot," etc.

IDAHO DEPARTMENT OF LANDS

These specifications were written by: 300 N 6th Street Boise, Idaho 83720-0050 Phone (208) 334-0226

Destination Idaho Department of Lands,

QUOTE ALL PRICES F.O.B. POINT OF DESTINATION

QUAN.	UNIT	ARTICLES	UNIT PRICE	EXTENDED AMOUNT
4	ea	Decommissioning of four (4) monitoring wells at the Triumph Mine which is located northeast of Hailey, Idaho, Blaine County Proposed date of completion is June 30, 2009. If this date is unobtainable due to ground conditions, please provide your anticipated completion date, which is_____ The work to be done shall consist of furnishing all labor, materials, permits, fees and equipment for the decommissioning of four (4) monitoring wells Work is to be performed by a Licensed Contractor. *A walk through will be scheduled at a later date with the successful proposer.* **QUOTES MUST BE RECEIVED BY 4:30 PM ON 6/16/2009.** In what State is the Responder domiciled_____. In determining domicile, the following "rule of thumb" will be used: **Corporation** - In what state is the Corporation chartered or incorporated. **Sole Proprietor or Partnership** - In what state is the permanent headquarters of business located. Failure to furnish information on "state of domicile" may result in rejection of quote.		

Delivery requested per Specifications and/or Scope of Work

FAX QUOTE TO:
Idaho Department of Lands
Cathy Grisham
Fax: (208) 334-2339

We have stated hereon the prices at which we will furnish and at destination named above, the articles or services as specified. Delivery will be made as specified above.

Firm _____

Street _____

City _____ State _____ Zip Code_____

Phone _____ Fax _____

Signed by _____

E-Mail_____

TAX ID #_____

Scope of Work
Triumph Mine Well Decommission 09-413

Project Background

The Triumph Mine site was reclaimed by the Idaho Department of Lands (IDL) and ASARCO in the late 1990's. The monitoring wells were placed in service in August of 1997 by Cascade Drilling Company. All four monitoring wells placements are located on the Well Map **Attachment B**. The four (4) monitoring wells are identified as:

MW-4A - depth of 25'
MW-4B - depth of 25.6'
MW-7A - depth of 7'
MW-7B - depth of 17.9'

Additional drilling information is available on the drilling logs sheets as **Attachment's C, D, E, F & G.** IDL shall provide access to all monitoring well sites from the landowner.

Project Requirements

1. The Contractor shall include a construction schedule in the bid document.

2. Contractor shall be licensed in the State of Idaho and provide verification of same.

3. Contractor qualifications and experience must be described in the bid submittal.

4. The four existing wells shall be decommissioned in accordance with, but not limited to the following:

    a. The Contractor shall determine the various State permits, certificates, and approvals required to complete this project wells in accordance with the Idaho Department of Water Resources (IDWR) rules and regulations identified in IDAPA 37.03.09.

    b. All required permits shall be completed and submitted by the Contractor to the authorities having jurisdiction prior to decommissioning operations.

    c. All fees required by the abandonment and decommissioning operations shall be determined by and covered within the Contractor's bid.

    d. A complete copy of all reports required to be filed shall also be provide to IDL at the completion of the project.

Critical Issues

Ground conditions/ Timeframe

Risks/Constraints

Boggy Soils could delay work 30 to 60 Days depending on weather conditions. Would need to coordinate any delays beyond the June 30, 2009 date with property owner in which the monitoring wells are located on.

Form 238-7
9/82

C

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

USE TYPEWRITER OR BALLPOINT PEN

WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

1. WELL OWNER

Name Kennedy Jenks

Address 530 So 336th St Kent WA

Owner's Permit No. 37-95-S-0147-0004

2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

MW 4B

3. PROPOSED USE

☐ Domestic ☐ Irrigation ☐ Test ☐ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☐ Other monitor (specify type)

4. METHOD DRILLED

☒ Rotary ☒ Air ☐ Hydraulic ☐ Reverse rotary
☐ Cable ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Casing schedule: ☐ Steel ☐ Concrete ☐ Other PVC

Thickness	Diameter	From	To
Sch 40 inches	4" inches +	2 feet	14.5 feet
inches	inches	feet	feet
inches	inches	feet	feet
inches	inches	feet	feet

Was casing drive shoe used? ☒ Yes ☐ No
Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☐ Yes ☒ No
How perforated? ☐ Factory ☐ Knife ☐ Torch
Size of perforation ____ inches by ____ inches

Number	From	To
perforations	feet	feet
perforations	feet	feet
perforations	feet	feet

Well screen installed? ☒ Yes ☐ No
Manufacturer's name
Type Model No.
Diameter 4" Slot size 020 Set from 14.5 feet to 24.5 feet
Diameter ____ Slot size ____ Set from ____ feet to ____ feet
Gravel packed? ☒ Yes ☐ No ☐ Size of gravel 10/20
Placed from 12 feet to 25 feet
Surface seal depth 12 Material used in seal: ☐ Cement grout
☒ Bentonite ☐ Puddling clay ☐
Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing
☐ Overbore to seal depth
Method of joining casing: ☒ Threaded ☐ Welded ☐ Solvent Weld
☐ Cemented between strata
Describe access port Locking cap

6. LOCATION OF WELL

Sketch map location must agree with written location.

N / W / E / S

Subdivision Name
Lot No. Block No.

AUG 21 1996

County
NW ¼ NW ¼ Sec. 36, T. 4N N/S, R. 18E E/W.

7. WATER LEVEL

Static water level 2 feet below land surface.
Flowing? ☐ Yes ☒ No G.P.M. flow
Artesian closed-in pressure ____ p.s.i.
Controlled by: ☐ Valve ☐ Cap ☐ Plug
Temperature ____ °F. Quality
Describe artesian or temperature zones below.

8. WELL TEST DATA

☐ Pump ☒ Bailer ☐ Air ☐ Other

Discharge G.P.M.	Pumping Level	Hours Pumped

9. LITHOLOGIC LOG

89217

Bore Diam.	Depth From	Depth To	Material	Water Yes	Water No
	0	1	Top Soil		
	1	8	Gravel	X	
	8	25	Cobbles & gravel		
	25		Hard Rock		

RECEIVED
MAR 25 1996
Department of Water Resources

RECEIVED
FEB 15 1996
Department of Water Resources
Southern Region

10.

Work started 8-26-95 finished 8-26-95

11. DRILLERS CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name ESD INC Firm No. 272
Address 3 Industrial Park Rd Date 1-15-96
Livingston MT
Signed by (Firm Official) Ed Hallen
and
(Operator)

USE ADDITIONAL SHEETS IF NECESSARY — FORWARD THE WHITE COPY TO THE DEPARTMENT

Groundwater Purge and Sample Form Date: 8/6/97 **Kennedy/Jenks Consultants**

PROJECT NAME: TRIUMPH R.I. WELL NUMBER: MW-4B

PROJECT NUMBER: 946091.01 PERSONNEL: Don Hanson

STATIC WATER LEVEL (FT): 3.36 MEASURING POINT DESCRIPTION: T&C PVC

WATER LEVEL MEASUREMENT METHOD: Solinst probe PURGE METHOD: 2" PVC Submersible

TIME START PURGE: 1142 PURGE DEPTH (FT) 12' below water

TIME END PURGE: 1205

TIME SAMPLED: 1206

COMMENTS: 3 casing vols. = 42 gal.

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	(4)	6	=	CASING VOLUME (GAL)
	25.6		3.36		22.24		0.16	0.64	1.44		14 gal

TIME	1141	1149	1148	1153	1157	1200	1204
VOLUME PURGED (GAL)	0	7	14	21	28	35	42
PURGE RATE (GPM)	0	1.8	1.75	1.75	1.75	1.75	1.75
TEMPERATURE (°C)	9.35	9.19	9.11	9.07	9.05	9.04	9.04
pH	6.60	6.55	6.59	6.63	6.65	6.67	6.67
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1597	1490	1338	1239	1196	1179	1169
DISSOLVED OXYGEN (mg/L)	1.54	0.85	1.61	3.16	3.59	3.95	4.03
eH(MV)Pt-AgCl ref.	176.5	179	179.3	180.6	182.2	183.6	184.7
TURBIDITY/COLOR	Clear	V. Slight lt. br	Slight Lt. br	V. slight lt br	Clear	Clear	Clear
ODOR	No	No	No	No	No	No	No
DEPTH OF PURGE INTAKE (FT)	12 Ft	12	12	12	12	12	12
DEPTH TO WATER DURING PURGE (FT)	3.36						
NUMBER OF CASING VOLUMES REMOVED	0	0.5	1	1.5	2	2.5	3
DEWATERED?	No	No	No	No	No	No	No

F-431 (5-89)

Groundwater Purge and Sample Form Date: 8/15/97 **Kennedy/Jenks Consultants**

PROJECT NAME: TRIUMPH R.I. WELL NUMBER: MW-4A

PROJECT NUMBER: 946091.01 PERSONNEL: Don Hobson

STATIC WATER LEVEL (FT): 5.27 MEASURING POINT DESCRIPTION: TOP PVC

WATER LEVEL MEASUREMENT METHOD: Solinst P.2 PURGE METHOD: Peristaltic pump

TIME START PURGE: 15 40 PURGE DEPTH (FT) 7.0 ft bgs

TIME END PURGE: 1555

TIME SAMPLED: 1600

COMMENTS: 3 Casing Vols = 2.5 gals.

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	CASING VOLUME (GAL)
	8.6		5.27		3.33		0.16	0.64	1.44		0.85

TIME				1543	1551		
VOLUME PURGED (GAL)	0	0.5	1.0	1.5	2.0	2.5	
PURGE RATE (GPM)							
TEMPERATURE (°C)	14.43	13.99	13.75	15.96	14.13	14.09	
pH	6.81	6.71	7.19	6.69	6.70	6.72	
SPECIFIC CONDUCTIVITY (micromhos/cm) (Uncorrected)	1642	883	1659	1659	1660	1664	
DISSOLVED OXYGEN (mg/L)	3.0	4.9	5.06	4.00	4.52	4.13	
eH(MV)Pt-AgCl ref.	-22.7	-91	-98	-99	-93.2	-102.8	
TURBIDITY/COLOR	Clear	Clear	Clear	Clear	Clear	Clear	
ODOR	No	No	No	No	No	No	
DEPTH OF PURGE INTAKE (FT)	6' below Static	→	→	→	→	→	
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED	0	0.6	1.2	1.8	2.3	3	
DEWATERED?	No					→	

F-431 (5-89)

Boring & Well Construction Log — Kennedy/Jenks Consultants

BORING LOCATION	DOWNGRADIENT OF LOWER TAILINGS PILE
DRILLING COMPANY	CASCADE DRILLING, INC.
DRILLER	ROONEY LA BROSSE
DRILLING METHOD	HOLLOW STEM AUGER (4.25" I.D.)
DRILL BIT SIZE	8 INCH
ISOLATION CASING	NONE FROM ___ TO ___ FT.
BLANK CASING	2-INCH SCHED. 40 PVC FROM 0.0 TO 3.0 FT.
PERFORATED CASING	2-INCH SCHED. 40 PVC (0.010 SLOT) FROM 6.0 TO 7.0 FT.
SIZE AND TYPE OF FILTER PACK	#0-20 COLORADO SILICA SAND FROM 4.5 TO 7.0 FT.
SEAL	BENTONITE CHIPS FROM 3.0 TO 4.5 FT.
GROUT	NONE FROM ___ TO ___ FT.

Boring/Well Name	MW-7A
Project Name	TRIUMPH
Project Number	945091.01
ELEVATION AND DATUM	9227.4
TOTAL DEPTH	7.0
DATE STARTED	08/13/1997
DATE COMPLETED	08/13/1997
INITIAL WATER COMP. (FT)	6.0
LOGGED BY	DON JANSON
SAMPLING METHODS	SPLIT SPOONS
WELL COMPLETION	SURFACE HOUSING; STAND PIPE 2.0 FT.

SAMPLES TYPE	SAMPLES NUMBER (FEET)	SAMPLES BLOW RESIST (BLOWS/6")	DEPTH (FEET)	SAMPLE NO.	WELL CONSTRUCTION	LITHOLOGY	USCS TYPE	SAMPLE DESCRIPTION AND DRILLING REMARKS
								Topsoil
					STATIC WATER LEVEL 8/15/97 1.63 FT.		OL	Dark brown, silty organic soil with some root
								a trace of gravel, soft, moist, no odors
S	1.4		5		WATER LEVEL DURING DRILLING 6.0 FT.		SM	Silty Intermedium SAND
								Gray, with a little organic material.
							GP/GM	moist, slight organic odor
			10					Fine GRAVEL with silt and sand
								Gray, trace of coarse gravel, wet, no odors

Notes:

1) Elevation was surveyed at ground surface

2) Sample descriptions are based on observations made during the drilling of monitoring well MW-7B, which was completed approximately 11 feet from this well.

SHEET 1 OF 1

Boring & Well Construction Log

Kennedy/Jenks Consultants

BOREHOLE LOCATION: DOWNGRADIENT OF LOWER TAILINGS PILE	**Boring/Well Name** MW-7R
DRILLING COMPANY: CASCADE DRILLING, INC. — DRILLER: RODNEY A BROSSE	**Project Name** TRIUMPH
DRILLING METHOD: HOLLOW STEM AUGER (4.25" I.D.) — DRILL BIT(S) SIZE: 8-INCH	**Project Number** 946091.01
FOUNDATION CASING: NONE — FROM ___ TO ___ FT.	ELEVATION AND DATUM: 8032.8 — TOTAL DEPTH: 17.5
BLANK CASING: 2-INCH SCH. 40 PVC — FROM 0.0 TO 15.5 FT.	DATE STARTED: 08/13/1997 — DATE COMPLETED: 08/13/1997
PERFORATED CASING: 2-INCH SCH. 40 PVC (0.010 SLOT) PRE-PACK — FROM 15.5 TO 17.5 FT.	INITIAL WATER DEPTH (FT): 5.0
SIZE AND TYPE OF FILTER PACK: 10-20 COLORADO SILICA SAND — FROM 13.5 TO 17.0 FT.	LOGGED BY: DON HANSON
SEAL: BENTONITE CHIPS — FROM 12.0 TO 13.5 FT.	SAMPLING METHODS: SPLIT SPOONS
GROUT: PORTLAND CEMENT WITH 5% BENTONITE GROUT — FROM 0.0 TO 12.0 FT.	WELL COMPLETION: SURFACE HOUSING; STAND PIPE 3.1 FT.

SAMPLE TYPE	SAMPLE RECOVERY (FEET)	BLOWS/6" RESET (BLOWS/FT)	DEPTH (FEET)	GRAPHIC LOG	WELL CONSTRUCTION	TESTINGS	USCS LOG	SAMPLE DESCRIPTION AND DRILLING REMARKS
			0				OH	Organic topsoil with sand Dark brown, trace of gravel, moist to wet, organic odor
S	1.4	1 2 2	5		WATER LEVEL DURING DRILLING 5.0 FT		SM	Silty fine to medium SAND Gray, a little organic material, moist, slight organic odor
							GP/GM	Fine GRAVEL with silt and sand Gray, wet at about 6'
S	0.2	20/6" 50/5"	10		STATIC WATER LEVEL 8/15/97 (7.91 FT.)		GP	Coarse GRAVEL and COBBLES Gray, wet, no odors, very hard and slow drilling Drilling continues very hard and slow from 10 ft. to 17.5 ft.
			15					

Notes:

1) Elevation was surveyed at ground surface

2) Grout was placed with a tremie pipe from the bottom up.

SHEET 1 OF 1